SBR: 000036/23-24
Dt: 04/08/2023

SBR: 000036/23-24
Dt: 04/08/2023

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

1st &Final bill

Division: **Electrical (Dasarahalli)** **JOB NO :016-23-000006** Sub-Division: **Electricals**

Head of Account : P0298 M & R to Electrical Installation in Parks & Gardens,Playgrounds

Bill Received No. Dated Book Voucher No..... Dated...

Schedule Docket Name of Work :- Replacement of Burntout UG Cable,Panels boards and its accessories coming under Dasarahalli Zone Parks 16,17,18,19,20,21

Name of Contractor and Full Address:- M/s. Chowdeshwari Electricals(M.)Ningegowda)

Reference to Agreement No:- EE/Ele/DZ/TEND/AG/000017/2022-23 Date:23.03.2023

Reference to Work order No:- EE/Ele/DZ/TEND/WO/000023/2022-23 Date:23.03.2023

Certified that the measurements were taken by me on 22/6/23 and recorded of Pages 684534 to of 45/38 measurement Book No. 6846 And that the work is satisfactorily executed.

For CHOWDESHWARI ELECTRICALS

Proprietor

Contractor

Officer-in-charge of work

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Certified that the measurement were taken by me on 22/6/2023 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being.....percent
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of
   b) Payments cost store or other material supplied. Now made recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments,
7) Net amount due to or from Contractor un adjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within. Value of Government materials supplied.

Bill amount	677809=00
IT	6778=00
CESS	6778=00
SeaT	6778=00
CBF	678=00
LWC	6778=00
deduction	27790=00
Netamt	650019=00

Total amount adjusted

For CHOWDESHWARI ELECTRICALS

Contractor's Signature

Proprietor

Received Rs..... (in words).....
by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

For CHOWDESHWARI ELECTRICALS

Witness
1.
2.

Proprietor
Signature of Contractor

Dated

Stamp

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....Initials of Officer making payment

(For use in the Office)
Audited and admitted for Rs. 677809/-
Passed by Cheque for Rs. 650019/-
(Six lakh fifty thousand nineteen
Only
by adjustment Rs. 27790/-

Accounts Superintendant Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

Scanned with OKEN Scanner

Sl. No.	Description of item	Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
			Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
	Replacement of Burntout UG Cable,Panels boards and its accessories coming under Dasarahalli Zone Parks 16,17,18,19,20,21									
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>1301m/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 25 Watts	No			26.00	1360.0	35360.00	26.00	35360.00	
2	Fabricating, supplying and erection of ... ms long hot dip Galvanized Octagonal hot dip Pole with BSEN 10025 grade S355 JO steel plate for shaft, IS 2062 for base plate with dooropening arrangements, including suitable boards, Bakelitesheet and MCBs as per IS specifications suitable to withstandthe wind speed of 47 m/s for .....m Pole in single section andsingle joint welded as per IS 9595/IS10178AWS havingdimensions bottom ..... mm , top.... mm with 3 mm thick,suitable base plate and 4Nos of ..... long J bolts along withtemplate and the Pole shall be hot dip galvanized in singledipping with not less than 65micron as per ASTM-A123 and 153etc., (excluding foundation) as per drawing appended.3 m - Top 70 mm and Bottom 130 mm dia	Each			26.00	3856.28	100263.28	26.00	100263.28	
3	Supplying, and fixing of Hot dip Galvanized M.S.Bracketsuitable for out door luminaries and mounted on Octagonalpole using necessary bolts, nuts etc., complete Single Arm Bracket with 1000 mm Standard 40/50 mm dia	Each			25.00	1049.92	26248.00	25.00	26248.00	
4	dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency> 1301m/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL / CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved /	Each			6.00	13597.28	81583.68	6.00	81583.68	
5	Fixing halogen/metal halide /SVL/IL/LED floodlight fitting over existing pole / wall ceiling including clA, bolts, nuts and wiring using suitable capacity wires	Each			6.00	128.52	771.12	6.00	771.12	
6	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work (V-I.No 1.4.1,Page No-5 PWD SR 2021-22) Depth upto 3 m,	Cum			11.60	49.64	575.82	11.60	575.82	

Scanned with OKEN Scanner

7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)	Cum	0.84	4302.5	3622.71	0.84	3622.71	
8	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22)	Kgs	359.45	58.84	21150.04	359.45	21150.04	
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22)	Cum	4.86	6026.49	29288.74	4.86	29288.74	
10	7. Crane hiring charges for substation works 1. Up to 5 hours	Hour	10.00	1020.0	10200.00	10.00	10200.00	
11	Earth work excavation for cable trench of 0.4 to 0.5 Mtr. Width and Depthupto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr,Supplying and Displaying necessary Danger Boards and Lighting, Using sightRails and Sign Boards at every 100 Mtr wherever necessary as directed.	Cmt	129.00	176.8	22807.20	129.00	22807.20	
12	COST DATA SHEET - 19For Laying of 1 KM Length of 11 kV, 3x95 Sqmm XLPE UG Cable Using Conventional Laying with Excavation of Soil b) Laying of cable in trench	Km	0.75	30793.12	23094.84	0.75	23094.84	
13	Wiring for lighting/power circuit using one of FRLS PVCinsulated 1100V grade, multistrand copper wire with lowconductor resistance single core in open or concealed system ofwiring with specified IS-694:confirming to latest amendments. 1.5 mm2	Mtr	275.00	17.68	4862.00	275.00	4862.00	
14	6 mm2	Mtr	19.00	59.16	1124.04	19.00	1124.04	
15	abricating supplying and mounting MS box made out...SWG suitable for floor /wall mounting, fully weather proofwith provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finishedwith approved colour etc., complete.16 SWG	cm	140000.00	0.26	36400.00	140000.00	36400.00	
16	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. Flat.....with bolts, washers etc., andpainted with 2 coats of red oxide and then two coats of approved paint. 40 x 40 x 6 mm	Mtr	15.00	187.0	2805.00	15.00	2805.00	
17	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N. F. screws	cm	40000.00	0.18	7200.00	40000.00	7200.00	
18	Supplying and fixing Moulded Case Circuit Breaker (MCCB)over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiringcomplete. Protection of Overload and Short circuit in ThermalMagnetic Release. Micro processor release shall have EarthFault as per IS-13947. (Icu=100% Ics). In 4P MCCB, all Polesshould have protection for Short-Cicrcuit/Over Load. ForMicroprocessor MCCBS Facility for segregating Priority andNon-Priority loads must be available in the MCCB. MCCB shallbe provided with double insulation (insulation between frontcover and internal power circuits to avoid any accidentalcontact with live current carrying path with the front coveropen). Multi-pole breakers shall be designed to break all thepoles simultaneously and they shall have a single mechanism. 100 A 25 kA	Each	4.00	5620.2	22480.80	4.00	22480.80	

Scanned with OKEN Scanner

19	Supplying & fixing miniature circuit breakers on existingMCB distribution boards using necessary fixing materialsand 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring asrequired confirming to IEC 60898.50-63 A TPN	Each					
20	Supplying and fixing Microprocessor Based Astronomical timerSwitch with using necessary bolts, nuts and washers.	Each					
21	Supply and fixing of 4pole power contactor with NO/NCcontacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100 to 125 A	Each					
22	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	Km					
23	25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm)	Km					
	Sub Total						
	Add GST 18 % on item no 01 to 21						
	GRAND TOTAL						

		5.00	1631.32	8156.60	5.00	**8156.60**	
		4.00	2959.36	11837.44	4.00	**11837.44**	
		4.00	6120.68	24482.72	4.00	**24482.72**	
		0.75	124740.56	93555.42	0.75	**93555.42**	
		0.15	163752.84	24562.93	0.15	**24562.93**	
				592432.37		**592432.37**	
			474314.03	**85376.53**		**85376.53**	
				677808.90		**677808.90**	

Certificate

1 The above said [redacted] work has been carriedout satisfactorily

2 The Amount Claimed in this Bill has not been claimed in any of the previous bill

JUNIOR ENGINEER (Elg)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Scanned with OKEN Scanner